

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) An air conditioning apparatus, comprising:

a cold and hot water circuit for the flow of cold and hot water, the cold and hot water circuit including

four heat exchangers for effecting heat exchange between the cold and hot water and an airstream, wherein two of the four heat exchangers are made up of air heat exchangers which mainly perform air sensible heat processing and the other two heat exchangers are made up of adsorption heat exchangers which mainly perform air latent heat processing with an adsorbent supported on a surface thereof,

a first switching mechanism for switching a direction of cold and hot water flow so that hot water flows through one of the adsorption heat exchangers while cold water flows through the other adsorption heat exchanger, and

a second switching mechanism for switching the direction of cold and hot water flow so that hot water flows through one of the air heat exchangers while cold water flows through the other air heat exchanger.

2-7. (Canceled).

8. (Previously Presented) The air conditioning apparatus of claim 1,

wherein said air conditioning apparatus is provided with a control unit which switches the flow of the cold and the hot water in the cold and hot water circuit and the distribution of air to thereby perform (a) a moisture absorbing operation in which, while cooling an adsorbent in an

adsorption heat exchanger, moisture in an airstream flowing through the adsorption heat exchanger is adsorbed by the adsorbent and (b) a moisture releasing operation in which, while heating an adsorbent in an adsorption heat exchanger, moisture is released to an airstream flowing through the adsorption heat exchanger.

9. (Original) The air conditioning apparatus of claim 8,
wherein the control unit is provided with a switching interval setting part for setting, depending on the latent heat load, a time interval at which switching between the moisture absorbing operation and the moisture releasing operation is accomplished.

10. (Original) The air conditioning apparatus of claim 9,
wherein the switching interval setting part is configured such that as the latent heat load increases the time interval at which switching between the moisture absorbing operation and the moisture releasing operation is accomplished is set to a lower setting value.

11. (Previously Withdrawn) The air conditioning apparatus of claim 1,
wherein said air conditioning apparatus includes a heat exchange element for effecting heat exchange between a first airstream and a second airstream and wherein at least one of the first and second airstreams is adsorption air or regeneration air prior to its passage through the adsorption heat exchanger.

12. (Previously Withdrawn) The air conditioning apparatus of claim 1,
wherein a latent heat processing element for performing air latent heat processing is
provided in a distribution passageway for the distribution of adsorption or regeneration air which
passes through the adsorption heat exchanger.

13. (Previously Presented) The air conditioning apparatus of claim 1,
wherein said air heat exchangers mainly perform air sensible heat processing by
supplying an airstream to said air heat exchangers without passing through said adsorption heat
exchangers.

14. (Previously Presented) The air conditioning apparatus of claim 1,
wherein said adsorption heat exchangers mainly perform air latent heat processing by
supplying an airstream to said adsorption heat exchangers without passing through said air heat
exchangers.

15. (Previously Presented) The air conditioning apparatus of claim 1, wherein the first
switching mechanism comprises:

a first three way valve connected in fluid communication with

a first end of a first adsorption heat exchanger,

a source of cold water, and

a source of hot water;

a second three way valve connected in fluid communication with

a second end of the first adsorption heat exchanger, and
a fluid junction of the first switching mechanism to the second switching
mechanism;

a third three way valve connected in fluid communication with
a first end of a second adsorption heat exchanger,
the source of cold water, and
the source of hot water; and
a fourth three way valve connected in fluid communication with
a second end of the second adsorption heat exchanger, and
the fluid junction of the first switching mechanism to the second switching
mechanism.

16. (Previously Presented) The air conditioning apparatus of claim 1, wherein the second
switching mechanism comprises:

a first three way valve connected in fluid communication with
a first end of a first air heat exchanger, and
a fluid junction of the first switching mechanism to the second switching
mechanism;

a second three way valve connected in fluid communication with
a second end of the first air heat exchanger,
a source of cold water, and
a source of hot water;

a third three way valve connected in fluid communication with
a first end of a second air heat exchanger, and
the fluid junction of the first switching mechanism to the second switching
mechanism; and

a fourth three way valve connected in fluid communication with
a second end of the second air heat exchanger,
the source of cold water, and
the source of hot water.

17. (New) An air conditioning apparatus, comprising:

a cold water circuit including
a cold water supply fluidly connected to a first adsorption heat exchanger,
the first adsorption heat exchanger performing latent heat processing and fluidly
connected to a first air heat exchanger,
the first air heat exchanger performing air sensible heat processing and being
fluidly connected to the cold water supply, wherein water circulates from the cold water supply
to the first adsorption heat exchanger, to the first air heat exchanger, and back to the cold water
supply; and

a hot water circuit including
a hot water supply fluidly connected to a second adsorption heat exchanger,
the second adsorption heat exchanger performing latent heat processing and
fluidly connected to a second air heat exchanger,

the second air heat exchanger performing air sensible heat processing and being fluidly connected to the hot water supply, wherein water circulates from the hot water supply to the second adsorption heat exchanger, to the second air heat exchanger, and back to the hot water supply.